

Amendments to the Claims

1-89. (Canceled)

90. (New) An access device for facilitating communication between a network and a premises device, the access device comprising:

a network interface configured to provide access to the network by any of a first plurality of access technologies, wherein the network interface comprises a first identifier configured to identify one of the first plurality of access technologies associated with a first incoming communication from the network;

a service hub configured to provide access to the premises device by any of a second plurality of access technologies, wherein the service hub comprises a second identifier configured to identify one of the second plurality of access technologies associated with a second incoming communication from the premises device; and

a central core coupling the network interface with the service hub;

wherein the central core is configured to receive the first incoming communication and a first indication of the one of the first plurality of access technologies from the network interface, to reformat the first incoming communication to a first outgoing transmission employing a second one of the second plurality of access technologies, and transfer the first outgoing communication to the service hub for transmission to the premises device; and

wherein the central core is further configured to receive the second incoming communication and a second indication of the one of the second plurality of access technologies from the service hub, to reformat the second incoming communication to a second outgoing transmission employing a second one of the first plurality of access technologies, and transfer the second outgoing communication to the network interface for transmission to the network.

91. (New) The access device of claim 90, wherein:

the first identifier is configured to identify to the controller a first access medium over which the first incoming communication is received; and

the second identifier is configured to identify to the controller a second access medium over which the second incoming communication is received.

92. (New) The access device of claim 90, wherein the central core comprises:

- a controller configured to receive the first and second indications and to determine the second one of the first plurality of access technologies and the second one of the second plurality of access technologies;

- a formatter configured to reformat the first and second incoming communications;
- and

- a database comprising specifications for each of the first plurality of access technologies and each of the second plurality of access technologies;

- wherein the controller is configured to access the database and process the specifications to control the formatter.

93. (New) The access device of claim 92, wherein the formatter comprises an access protocol formatter configured to format the first outgoing communication for a first access protocol selected by the controller, and format the second outgoing communication for a second access protocol selected by the controller.

94. (New) The access device of claim 93, wherein the access protocol formatter is further configured to remove access protocol formatting from each of the first and second incoming communications.

95. (New) The access device of claim 92, wherein the formatter comprises a framing formatter configured to format frames for the first outgoing communication for a first access protocol selected by the controller, and format frames for the second outgoing communication for a second access protocol selected by the controller.

96. (New) The access device of claim 95, wherein the framing formatter is further configured to remove header information from each of the first and second incoming communications.

97. (New) The access device of claim 92, wherein the formatter comprises a signal formatter configured to format each of the first and second incoming communications and each of the first and second outgoing communications according to at least one signal process selected by the controller.

98. (New) The access device of claim 97, wherein the at least one signal process comprises at least one of modulation, demodulation, compression, decompression, encryption and de-encryption.

99. (New) A method for facilitating communication between a network and a premises device, the method comprising:

- providing access to the network by any of a first plurality of access technologies;
- providing access to the premises device by any of a second plurality of access technologies;

- identifying one of the first plurality of access technologies associated with a first incoming communication from the network;

- identifying one of the second plurality of access technologies associated with a second incoming communication from the premises device;

- accessing a database comprising specifications for each of the first plurality of access technologies and each of the second plurality of access technologies

- reformatting the first incoming communication to a first outgoing transmission employing a second one of the second plurality of access technologies according to the specifications;

- reformatting the second incoming communication to a second outgoing transmission employing a second one of the first plurality of access technologies according to the specifications;

- transmitting the first outgoing communication to the premises device; and

- transmitting the second outgoing communication to the network.

100. (New) The method of claim 99, further comprising:
 identifying a first access medium over which the first incoming communication is received; and
 identifying a second access medium over which the second incoming communication is received.

101. (New) The method of claim 99, wherein:
 reformatting the first incoming communication comprises formatting the first outgoing communication for a first access protocol; and
 reformatting the second incoming communication comprises formatting the second outgoing communication for a second access protocol.

102. (New) The method of claim 99, wherein:
 reformatting the first incoming communication comprises removing access protocol formatting from the first incoming communication; and
 reformatting the second incoming communication comprises removing access protocol formatting from the first incoming communication.

103. (New) The method of claim 99, wherein:
 reformatting the first incoming communication comprises formatting frames for the first outgoing communication for a first access protocol; and
 reformatting the second incoming communication comprises formatting frames for the second outgoing communication for a second access protocol.

104. (New) The method of claim 99, wherein:
 reformatting the first incoming communication comprises removing header information from the first incoming communication; and
 reformatting the second incoming communication comprises removing header information from the second incoming communication.

105. (New) The method of claim 99, wherein:

reformatting the first incoming communication comprises formatting each of the first incoming communication and the first outgoing communication according to at least one signal process; and

reformatting the second incoming communication comprises formatting each of the second incoming communication and the second outgoing communication according to at least one signal process.

106. (New) The method of claim 105, wherein the at least one signal process comprises at least one of modulation, demodulation, compression, decompression, encryption and de-encryption.